

# BD340S~BD3200S

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

**Voltage**

**40~200 V**

**Current**

**3 A**

### Features

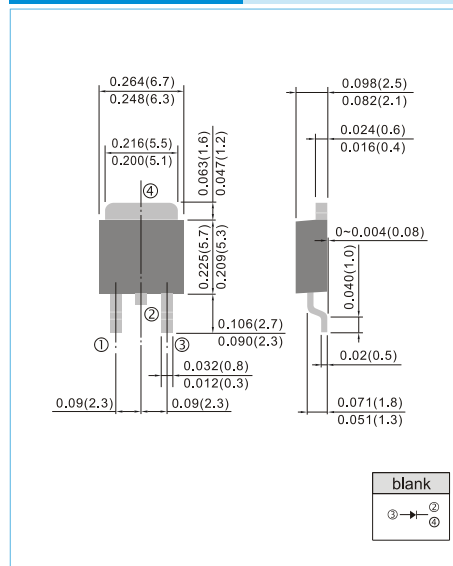
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

### Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

**TO-252**

Unit : inch(mm)



### Maximum Ratings ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	BD340S	BD345S	BD350S	BD360S	BD380S	BD390S	BD3100S	BD3150S	BD3200S	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
Maximum rms voltage		V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum dc blocking voltage		V <sub>R</sub>	40	45	50	60	80	90	100	150	200	V
Maximum average forward rectified current		I <sub>F(AV)</sub>	3									A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	75									A
Maximum forward voltage at 3A per diode (Note 1)		V <sub>F</sub>	0.7		0.74		0.8			0.9		V
Maximum dc reverse current at rated dc blocking voltage	T <sub>J</sub> =25 °C	I <sub>R</sub>	0.05									mA
	T <sub>J</sub> =100 °C		20									
Typical thermal resistance (Note 2)		R <sub>θJL</sub>	20									°C/W
		R <sub>θJA</sub>	75									
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	-65 to +175								°C

Note :

1. Pulse Test with  $PW=300\mu\text{sec}$ , 1% Duty Cycle
2. Mounted on P.C. Board with  $8\text{mm}^2$  (0.013mm thick) copper pad areas.

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## RATING AND CHARACTERISTIC CURVES

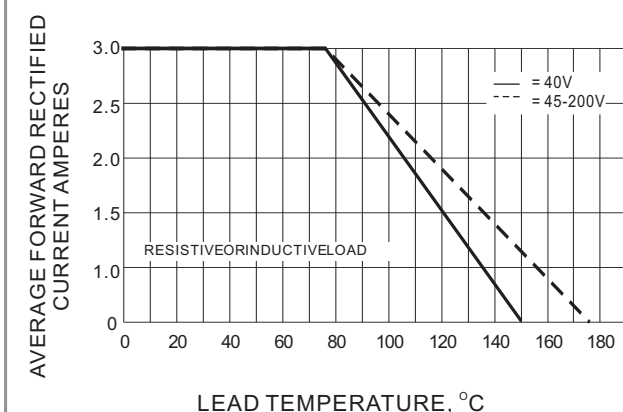


Fig.1- FORWARD CURRENT DERATING CURVE

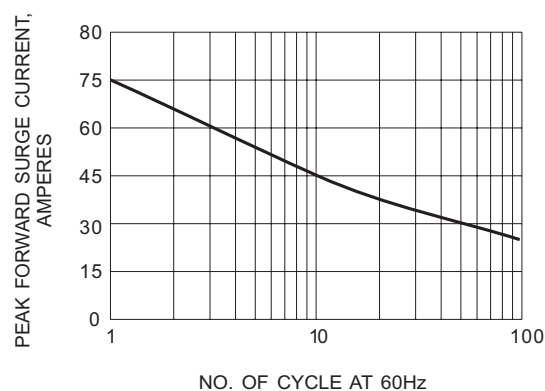


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

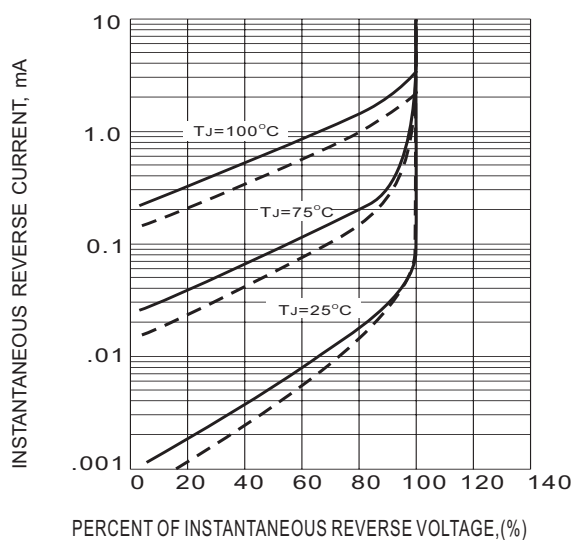


Fig.3- TYPICAL REVERSE CHARACTERISTICS

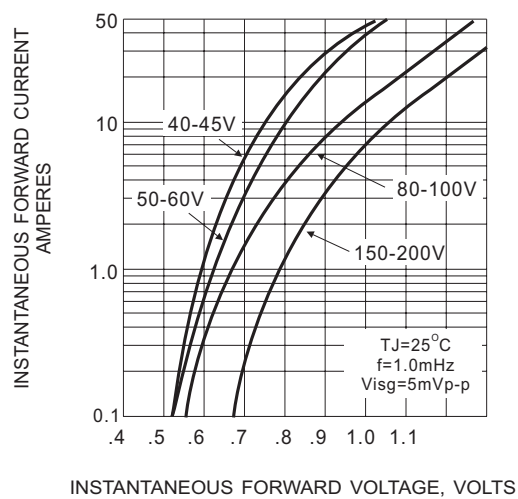
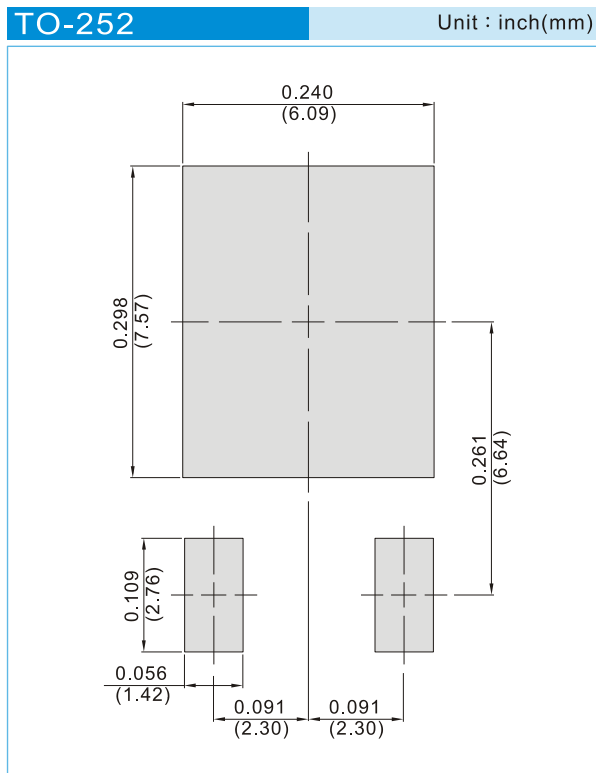


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R – 3K per 13" plastic Reel

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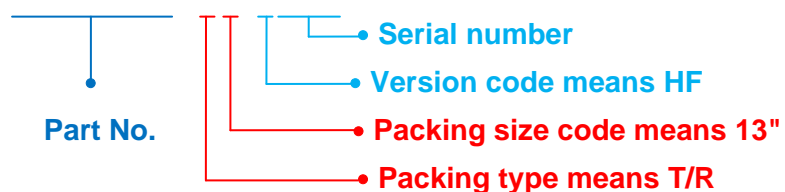
Part No\_packing code\_Version

BD340S\_L2\_00001

BD340S\_S2\_00001

For example :

RB500V-40\_R2\_00001



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



## **BD340S~BD3200S**

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